

Tuesday, November 08, 2016 10:52:50 AM

Page 1

Run	Start	*NR1*
	Stop	*NR2*

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 153128

Tuesday, November 08, 2016 10:52:50 AM

153128

Page 2

Item ID: K10003

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Saddle

Start Date: 10/31/2016 Start Qty: 4.00

4

Cust Item ID:

Required Date: 11/8/2016 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <i>Eg 129</i>	0.00							
130									
Packaging	Memo	0.01				<i>4</i>	<i>DAS</i> 28 9-89	<i>DAS</i> 27 9-89	FEB 08 2017
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.07					<i>DAS</i> 21 9-89		FEB 08 2017
Quality Control									

mf
17-2-1
DAS
21
9-89

FEB 08 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : _____			

Picklist Print

Tuesday, November 08, 2016 10:52:49 AM

Page 1

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP : I 03.01.16 Reformat: Incorporated D205-641-011 KJ/RF
IPP : J 06-07-25 As per DSI 9344 JLM
IPP : K 06.11.17 Per K10003 Rev C KJ
IPP : L 07.01.12 Document Record for copying bluefile rmv KJ
IPP Rev:M 08-08-12 now @ chg 006 (DSI 9418) DD verified by:
IPP N 09.01.27 DSI 9418 rev B EC verified by: DD IPP Rev:O
11.03.11 per dsi9536 DD verf:EC IPP REV:P 12.01.23 AS
PER ECN11-684 VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-51A		Purchased	No			110	Each	145.0000	8	32			

AN4-51A

Bolt

Location

Loc Qty

Loc Code

FG	5	
122993	5	
over003	100	
m135706	50	
m135766	50	
over004	24	
m135158	24	
ST340	16	
m135274	16	

DAS
6
9-89

FEB 07 2017
DAS
27
9-89

136444

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, November 08, 2016 10:52:50 AM

Page 2

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

AN4-6A

Purchased

No

110

Each

681.0000

16

64

AN4-6A

BOLT

**

DAS
6
9-89

FEB 07 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

400

M135683

200

M135945

200

ST345

281

M134943

1

M135390

80

M135407

200

64

AN4C46A

Purchased

No

110

Each

188.0000

4

16

AN4C46A

Bolt

**

DAS
6
9-89

FEB 07 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

8

123642

2

m132169

6

OVER002

140

m135312

70

m135721

70

ST341

40

m131856

7

m135311

33

16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Tuesday, November 08, 2016 10:52:50 AM

Page 3

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

AN6-12A

Purchased

No

110

Each

141.0000

8

32

AN6-12A

Bolt

**

FEB 07 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over005

105

M135704

40

M135948

65

ST335

36

M134370

3

M135058

2

M135297

31

32

D2570

Manufactured

No

110

Each

388.0000

24

96

D2570

Bushing

**

FEB 07 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

12

88781

12

FP001

27

147395

27

ST008

349

145728

2

148174

37

150641

310

152241

D2571

Manufactured

No

110

Each

24.0000

1

4

D2571

Saddle, Fwd, Out

**

FEB 07 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST397

24

148234

4

150899

8

151143

4

151895

8

4

Tuesday, November 08, 2016 10:52:50 AM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause			FAULT CATEGORY					
Environment ☐		No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐		Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐		Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐		Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐		Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐		Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐		Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐		Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐		Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐		Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐		Manufacturing Process ☐	OTHER : _____					
Misidentified ☐		Past Due ☐						

Picklist Print

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Page 4

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

D2572

Manufactured No

110

Each

22.0000

1

4

D2572

Saddle, Fwd, In

**

FEB 07 2017

DAS 27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST397

22

148571

6

150973

8

151380

8

D2573

Manufactured No

110

Each

23.0000

1

4

D2573

Saddle, Aft, Out

**

FEB 07 2017

DAS 27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST398

23

147608

3

151015

12

151390

8

D2574

Manufactured No

110

Each

18.0000

1

4

D2574

Saddle, Aft, In

**

FEB 07 2017

DAS 27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST398

18

151012

10

151013

8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By _____					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 5

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

D2747

Manufactured No

110

Each

128.0000

4

16

D2747

Set Screw

**

FEB 07 2017

Location

Loc Qty

Loc Code

ST010

60

149888

10

152598

50

ST012a

68

147938

18

150669

50

16

D2876

Manufactured No

110

Each

63.0000

2

8

D2876

Saddle Spacer

**

FEB 07 2017

Location

Loc Qty

Loc Code

ST013

63

145692

63

D2877

Manufactured No

110

Each

48.0000

2

8

D2877

Saddle Spacer

**

FEB 07 2017

Location

Loc Qty

Loc Code

ST013

48

145949

2

147970

12

150687

14

151149

20

8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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Description Work Order Deviation		Disposition		Completed By	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Page 6

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

D3405-041 Manufactured No

110 Each 14.0000 1 4

FEB 07 2017

D3405-041

Ground Handling Lug

**

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

st529

14

147912

10

148892

4

15083

D3405-043 Manufactured No

110 Each 28.0000 1 4

FEB 07 2017

D3405-043

Ground Handling Lug

**

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

st529

28

147906

6

148665

10

152065

12

4

D3407-041 Manufactured No

110 Each 8.0000 1 4

FEB 07 2017

D3407-041

Tow Ring

**

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

st530

8

149195

2

151431

6

153697

D3417-5 Manufactured No

110 Each 67.0000 2 8

FEB 07 2017

D3417-5

Washer

**

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST035

27

149255

27

ST038A

40

151493

40

152860

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Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, November 08, 2016 10:52:50 AM

Page 7

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

D3456-1

Manufactured No

110

Each

94.0000

1 4

D3456-1

Washer

**

FEB 07 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

7

25701

7

ST037

87

150652

38

151938

49

D3533-1

Manufactured No

110

Each

75.0000

2 8

D3533-1

Set Screw

**

FEB 07 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST041

75

148836

25

152597

50

MS21042L4

Purchased No

110

Each

2,224.000

24 96

MS21042L4

Nut

**

FEB 07 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

34

m133363

34

GA

204

m135058

204

OVER007

500

m135979

500

ST303

1486

m135704

46

m135774

440

m135864

1000

136648

Tuesday, November 08, 2016 10:52:50 AM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By _____					
				Lead hand / Supervisor Approval Verification _____					
				QC / QA Coordinator Approval _____					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____ _____ _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, November 08, 2016 10:52:50 AM

Page 8

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

MS21043-4

Purchased

No

110

Each

426.0000

5

20

MS21043-4

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

FG
104603
GA
m132803
ST302
m135600

40
40
17
17
369
369

136198

NAS1149D0463J

Purchased

No

110

Each

3,640.000

32

128

NAS1149D0463.J

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA
M134508
M135056
ST260a
M136044
ST263
M135671
M135767
M135948

84
13
71
1600
1600
1956
3
953
1000

136263

FEB 07 2017

DAS
27
9-89
6

FEB 07 2017

DAS
27
9-89
6

Tuesday, November 08, 2016 10:52:50 AM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Tuesday, November 08, 2016 10:52:50 AM

Page 9

Work Order ID: 153128

153128

Parent Item: K10003

K10003

Parent Item Name: Saddle

Start Date: 10/31/2016

Required Date: 11/8/2016

Start Qty: 4.00

Required Qty: 4.00

NAS1149D0663J

Purchased

No

110

Each

925.0000

8

32

NAS1149D0663.I

**

Washer

DAS
6
9-89

DAS
27
9-89

2017

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260

215

M131618

215

ST260a

500

M135948

500

ST263

210

M135464

210

32

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Work Order ID 153128***153128***

Page 1

Tuesday, February 07, 2017 9:07:31 AM

Item ID: K10003 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Saddle
Start Date: 10/31/2016 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 11/8/2016 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN634,635	H								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Create White labels only per PPP K10003	CHG 0010							
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.02							
Quality Control									

DAS
21
9-89

FEB 07 2017

4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

5.0 PARTS LIST

Item	634 -011	634 -015	634 -041	634 -045	641 -011	Part Number	Description
	X					D205-634-011	SKIDTUBE INSTALLATION (STANDARD)
		X				D205-634-015	SKIDTUBE INSTALLATION (MODIFIED)
1			X			D205-634-041	SKIDTUBE
		1		X		D205-634-045	SKIDTUBE
1	1	1			X	D205-641-011	GROUND HANDLING KIT
1			1			D2580-041	205 SKIDTUBE ASSEMBLY (STANDARD)
1				1		D2580-045	205 SKIDTUBE ASSEMBLY (MODIFIED)
2A			16	16		D2594-1	* PLUG
2B			16	16		D2594-3	* O-RING
3			1	1		D2855	* AFT CAP
4			2	2		AN3-5A	* BOLT
5			2	2		NAS1149D0332J	* WASHER (AN960JD10L)
6A			1	1		D3564-9	* WEARSHOE (REPLACES D2577-1)
6B			1	1		D3566-1	* GASKET
7A			1	1		D3564-11	* WEARSHOE (REPLACES D2577-3)
7B			1	1		D3566-1	* GASKET
8A			1	1		D3564-5	* WEARSHOE (REPLACES D2577-5)
8B			1	1		D3566-5	* GASKET
9A			1	1		D3564-13	* WEARSHOE
9B			1	1		D3566-13	* GASKET
10			50	50		AN3C4A	* BOLT (REPLACES AN3-4A)
11			50	50		NAS1149C0332R	* WASHER (AN960C10L)
12			50	50		ALS4-1032-130	* INSERT
13			2	2		ALS4-1032-225	* INSERT
20	1	1				D2571	SADDLE, FWD OUTSIDE
21	1	1				D2572	SADDLE, FWD INSIDE
22	1	1				D2573	SADDLE, AFT OUTSIDE
23	1	1				D2574	SADDLE, AFT INSIDE
24	8	8				AN4-51A	BOLT
25	16	16				D2570	BUSHINGS
26	8	8				MS21042L4	NUT (OR MS21042-4)
27	8	8				AN6-12A	BOLT
28	8	8				NAS1149D066J	WASHER (AN960JD616)
29	16	16				AN4-6A	BOLT
30	32	32				NAS1149D0463J	WASHER (AN960JD416)
31	16	16				MS21042L4	NUT (OR MS21042-4)
32	4	4				D2747	SET SCREW
33	2	2				D3533-1	SET SCREW
40	1	1				D3407-041	TOW RING (REPLACES D2968-041)
41	1	1				D3456-1	WASHER
43	1	1				MS21043-4	NUT
44	2	2				D3417-5	WASHER
50					1	D3405-041	LUG ASSEMBLY (REPLACES D2736-1)
51					1	D3405-043	LUG ASSEMBLY (REPLACES D2736-3)
52					4	AN4C46A	BOLT
53					8	D2570	BUSHING
54					4	MS21043-4	NUT (OR MS21042-4)
60	2	2				D2876	SADDLE SPACER
61	2	2				D2877	SADDLE SPACER

*DENOTES THAT PART IS INCLUDED WITH D2580-041/-045 ASSEMBLY ABOVE

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Revision: H
Date: 14.04.11

REFERENCE ONLY

DART AEROSPACE LTD.

D205-634
Page 12 of 13

Item	634 -111	634 -141	634 -143	641 -011	Part Number	Description
	X				D205-634-111	SKIDTUBE INSTALLATION (STANDARD) WITH TRAINING WEARPLATE
	1	X			D205-634-141	REPLACEMENT SKIDTUBE WITH TRAINING WEARPLATE
			X		D205-634-143	TRAINING WEARPLATE KIT
	1			X	D205-641-011	GROUND HANDLING KIT
1		1			D2580-047	205 SKIDTUBE ASSEMBLY (STANDARD)
2A		8			D2594-1	* PLUG
2B		8			D2594-3	* O-RING
3		1			D2855	* AFT CAP
4		2			AN3-5A	* BOLT
5		2			NAS1149D0332J	* WASHER (AN960JD10L)
13		2			ALS4-1032-225	* INSERT
14A		1	1		D4406-041	* FWD WEARPLATE ASSEMBLY
15A		1	1		D4406-043	* AFT WEARPLATE ASSEMBLY
16		8	8		AN4-45A	* BOLT
17		16	16		D2570	* BUSHING
18		8	8		MS21042L4	* NUT (OR MS21042-4)
19			4		D2579	* SPACER
20	1				D2571	SADDLE, FWD OUTSIDE
21	1				D2572	SADDLE, FWD INSIDE
22	1				D2573	SADDLE, AFT OUTSIDE
23	1				D2574	SADDLE, AFT INSIDE
24	8				AN4-51A	BOLT
25	16				D2570	BUSHINGS
26	8				MS21042L4	NUT (OR MS21042-4)
27	8				AN6-12A	BOLT
28	8				NAS1149D0668J	WASHER (AN960JD616)
29	16				AN4-6A	BOLT
30	32				NAS1149D0463J	WASHER (AN960JD416)
31	16				MS21042L4	NUT (OR MS21042-4)
32	4				D2747	SET SCREW
33	2				D3533-1	SET SCREW
40	1				D3407-041	TOW RING (REPLACES D2968-041)
41	1				D3456-1	WASHER
43	1				MS21043-4	NUT
44	2				D3417-5	WASHER
50				1	D3405-041	LUG ASSEMBLY (REPLACES D2736-1)
51				1	D3405-043	LUG ASSEMBLY (REPLACES D2736-3)
52				4	AN4C46A	BOLT
53				8	D2570	BUSHING
54				4	MS21043-4	NUT (OR MS21042-4)
60	2				D2876	SADDLE SPACER
61	2				D2877	SADDLE SPACER

*DENOTES THAT PART IS INCLUDED WITH D2580-047 ASSEMBLY ABOVE

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Revision: **H**
Date: 14.04.11

Item	634 -113	634 -145	634 -147	641 -011	Part Number	Description
	X				D205-634-113	SKIDTUBE INSTALLATION (STANDARD) WITH THRU BOLT WEARPLATES
	1	X			D205-634-145	REPLACEMENT SKIDTUBE WITH THRU BOLT WEARPLATES
			X		D205-634-147	THRU BOLT WEARPLATE KIT
	1			X	D205-641-011	GROUND HANDLING KIT
1		1			D2580-049	205 SKIDTUBE ASSEMBLY (STANDARD)
2A		8			D2594-1	* PLUG
2B		8			D2594-3	* O-RING
3		1			D2855	* AFT CAP
4		2			AN3-5A	* BOLT
5		2			NAS1149D0332J	* WASHER (AN960JD10L)
13		2			ALS4-1032-225	* INSERT
14B		1	1		D5061-1	* FWD WEARPLATE
15B		1	1		D5061-3	* AFT WEARPLATE
16		8	8		AN4-45A	* BOLT
17		16	16		D2570	* BUSHING
18		8	8		MS21042L4	* NUT (OR MS21042-4)
19			4		D2579	* SPACER
20	1				D2571	SADDLE, FWD OUTSIDE
21	1				D2572	SADDLE, FWD INSIDE
22	1				D2573	SADDLE, AFT OUTSIDE
23	1				D2574	SADDLE, AFT INSIDE
24	8				AN4-51A	BOLT
25	16				D2570	BUSHINGS
26	8				MS21042L4	NUT (OR MS21042-4)
27	8				AN6-12A	BOLT
28	8				NAS1149D0668J	WASHER (AN960JD616)
29	16				AN4-6A	BOLT
30	32				NAS1149D0463J	WASHER (AN960JD416)
31	16				MS21042L4	NUT (OR MS21042-4)
32	4				D2747	SET SCREW
33	2				D3533-1	SET SCREW
40	1				D3407-041	TOW RING (REPLACES D2968-041)
41	1				D3456-1	WASHER
43	1				MS21043-4	NUT
44	2				D3417-5	WASHER
50				1	D3405-041	LUG ASSEMBLY (REPLACES D2736-1)
51				1	D3405-043	LUG ASSEMBLY (REPLACES D2736-3)
52				4	AN4C46A	BOLT
53				8	D2570	BUSHING
54				4	MS21043-4	NUT (OR MS21042-4)
60	2				D2876	SADDLE SPACER
61	2				D2877	SADDLE SPACER

*DENOTES THAT PART IS INCLUDED WITH D2580-049 ASSEMBLY ABOVE